CLUB REPEATER:
WR4ACF (146.04/64)

CLUB CALL:
W4DW

RALEIGH AMATEUR RADIO SOCIETY
RARS
WORLDWIDE FRIENDSHIP

AFFILIATE

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"Raleigh Amateur Radio Society News"

MARCH 1975 ISSUE 65

THE RALEIGH AMATEUR RADIO SOCIETY'S THIRD ANNUAL HAMFEST SUNDAY APRIL 20, 1975

MEET YOUR MEMBERS... HARRY WIGGS, W4ANU

The year was 1937. The Ohio River was over its banks at Paducah, Kentucky. Water was touching the ceiling on the first floor of a house where a ham with a portable generator was sitting on the second floor providing the stricken area's only contact with the outside world.

That contact was Harry Wiggs, W4ANU, operating in Raleigh. "I was the only amateur in the United States in contact with them," Wiggs said. "I had a direct private line into Washington. I was on for 36 hours continuously --no rest, no sleep, no nothing except eat and drink coffee."

Wiggs said the ham station at Paducah was manned by two boys. He said Red Cross kept the boys supplied with gasoline for their generator and fed them.

"All the wants of the Red Cross were relayed to the station by boat," Wiggs recalled. "The boat would come over from land. The boys would give the messages and I'd give them to Red Cross at Washington."

Wiggs was then eight years a ham. He was licensed September 15, 1929 as W4ANU, the only call he has ever held.

PUBLISHED MONTHLY BY THE RALEIGH AMATEUR RADIO SOCIETY, INC. P. O. BOX 17124, RALEIGH, NORTH CAROLINA 27609 ■ MATERIAL CONTAINED HEREIN MAY BE REPRINTED WITHOUT PRIOR PERMISSION WITH CREDIT GIVEN THIS PUBLICATION ■ TECHNICAL EDITOR - BERT BAILEY, W4FMN, ■ OFFICERS: PRESIDENT - AL CLEMENT, WA4DKZ; VICE PRESIDENT - DAVE THOMAS, K4SAN; SECRETARY - CHUCK LITTLEWOOD, W4RUH; TREASURER - PAUL THOBURN, WB4MKY ■ PRINTED BY QUIKCOPY, RALEIGH, NORTH CAROLINA.

He was encouraged to enter the world of ham radio by two other hams, W4EG and W4DW. Wiggs was servicing radios for a firm on Salisbury St. in Raleigh. W4EG was an engraver at a firm next door. W4DW was a teacher at what is now North Carolina State University at Raleigh.

"They would come in to get the goodies left over from repair work in the radio shop," Wiggs reminisced. "They said, 'with all these goodies, why don't you get on the air?' W4DW taught me the code and got me where I could pass the examination."

Wiggs is a hurricane chaser. "I've worked in every hurricane that's come to North Carolina since I've been in ham radio. I was in Morehead City working mobile after a hurricane took out all the bridges.

"Of course, since I'm getting a little older, I don't do as much traveling up and down the coast with the hurricanes as I used to," Wiggs said. He will be 74 November 20.

Interest in ham radio is a family affair. Wiggs said his first wife, who died in 1956, was "very active" in amateur radio. He remarried and wife Jane is also "very much interested in ham radio." Son Robert, 14, was recently licensed as a novice. Father and son are both members of Raleigh Amateur Radio Society.

Wiggs was born in Chowan County in northeast North Carolina and graduated from Hugh Morson High School in Raleigh. His education after that came from "the school of practical experience, hard knocks, and burns," as he described it. He retired at age 65 after working with Electric Motor Repair Co. at Raleigh 36 years.

Wiggs operates a Drake SB220 transceiver.

NEXT MEETING

The next monthly meeting of the RARS will be held Wednesday, March 5, 1975 at 7:30 PM. We will have our annual auction and swap. So...bring your junk!!

The meeting will be held in the CD Headquarters in the basement of the N.C. State Goverment Administration Building, 116 W. Jones St. Free coffee and donuts. Everyone interested in amateur radio is invited to attend.

RARS PRESIDENT BITES DUST

After a lengthy courtship via teletype to England, our leader is tying the knot with Miss Cathy Kurby. Al is going to England on March 28, 1975 and will return with his bride on April 20, 1975. They will reside in Raleigh. Best wishes!!

FREQ COUNTER

Dell Thomas, WB4HWM, advises that he expects to have the first prototype of our next club project, a frequency counter, ready in a few weeks. Anyone interested had better get their name on the list.

... from Dave W4YDY

There has been a lot of info affecting amateur radio for the past few weeks. At the ARRL Directors meeting in January, Dick Baldwin, W1RU, was confirmed as League General Manager and QST editor. He replaces John Huntoon, W1RW, who has done an outstanding job. Also, Phil Wicker, W4ACY, is now on the ARRL Foundation Board. Some other actions of the meeting was to approve an annual listing in QST of 5BDXCC holders and a CW-only DXCC award.

From the FCC, we have some good news and maybe some bad news. Effective March 1, it will cost $4 for a new license or renewal and $3 for a modification. Be sure to wait after March 1 before sending in the application. Now for the bad news. It looks like the FCC is going to approve Class E CB and maybe put it in the middle of the 220 MHz band. And it could come as early as May. From the Office of Telecommunications Policy, comes the recommendation to put Class E near the middle of the 220 MHz band. They want it on 222 to 224 MHz. The ARRL has asked for a revised notice of proposed rule making, so the impact of splitting the amateur band could be studied. Hopefully, the FCC will delay this matter for more study. Like forever!

Now for some more dandy news. OHSA, the occupational safety people, are planning for ALL towers over 20 feet to have a built-in OHSA-approved ladder. It would be 16-18 inches wide, with side rails mounted 6 inches off the tower! Just think of the cost of towers for amateur and TV use, since the OHSA ladder is heavier and larger than most towers used by amateurs. The ruling could become effective this summer if protests don't stop it. HR Report had info on this.

Here's a quote from COPA Collector and Emitter for what it's worth. "A private communication from Perry Ferrell, formerly editor of Popular Electronics, indicated that Wayne Green had lost control of 73 magazine, and that the magazine was listed 'For Sale' with a New York broker...and no takers, although the price has been dropped $100,000 from the initial figure."

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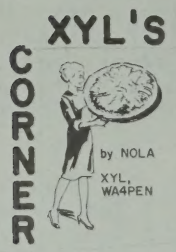
Tell'em Bill, WB4AXH, sent you!!

SET

Just a word of thanks to all of you that participated in SET. Good job, Herb (K4FBG)



This past month the ole skin-flint (otherwise known as WB4DCM) and I were keeping an eye on our electric consumption so that we would not get socked with one of those "mortgage" electric bills. The bill came the other day and apparently one eye was not sufficient - $85.00 for one month.

After Clyde and I administered mouth to mouth resusitation and heart massage to afore-said skin-flint, he recovered sufficiently to enact immediate measures. (Actually, I think it was Clydes' mouth to mouth technique that revived your editorship). Well, back to the text of my message, he dashed around turning the thermostat down from 60°F to 45°F, removing light bulbs so that I could not turn on lights, and putting wash tubs under the eves of the house to catch rain water so that we wouldn't have to run the electric water pump. He had to abandon this last procedure after a week or so when we noticed Clyde was using this as his drinking water. I have also been instructed to quit cooking (thus saving on the grocery bill).

In fact, Charles thinks that the whole economic situation looks so bad around our household, he is considering quitting his job! Then he could devote full time to saving money.

Ann, XYL

FCC FEES

The new FCC fees have gone into effect. Renewals $4.00 and modifications $3.00. Fees submitted prior to the effective date will be charged at the old rate.

CRABTREE VALLEY

A joint project by RARS and the Cary Club is continuing every 3rd Friday at the main entrance to the mall. It is a booth to handle traffic and explain amateur radio to the public. This project deserves a little support - so let Herb Lacey hear from you.

WANTED

A general coverage receiver - contact Ken Rudder at 365-6194.

HR REPORT, DATED JANUARY 16, 1975

National Environmental Policy Act of 1969 appears likely to have little direct impact on amateur radio, but indirect effect on the unwary may cause lots of bother to them. Environmental impact report must be filed with amateur license applications on Form 610 or 610B only if the station will have a "major" impact on the environment. Installations having a "major" impact are: A. Antenna tower or antenna over 300 feet high (but not an antenna mounted on an existing structure 300 or more feet high).
B. Satellite earth station with dish of 30 feet or more diameter.
C. Locations in a: 1) wilderness area; 2) wildlife preserve area, or 3) national scenic or recreation area. D. Stations affecting sites significant in U.S. history. E. Any involving extensive changes in land-surface features.

Applications Other Than The Above are considered "minor" and no statement need be filed. The catch is that after January 20, 1975, applications should include a statement as to whether the proposed station's impact will be "major" or "minor" -- and new 610s and 610Bs won't be available for some time!

To Be On The Safe Side until the new forms are out, add a statement such as, "This application is a 'minor action' as defined by Section 1.1305 of the Commission's rules." somewhere on the form -- the block titled "certification" seems to have the most room -- unless you will have a "major" environmental impact, in which case a call to the FCC is advisable!

THE NOVICES' CORNER

Hello again. This month I'd like to discuss antennas. I have just finished putting up a ten meter vertical and don't know if it works yet; but by the time you read this it will either be working or torn down.

The ten meter antenna just mentioned was very simple to make. All you do is measure out two pieces of copper wire (uninsulated) to 8-1/2 feet. Take your coax and solder one lead to one wire and the other lead to the other wire so you come out with a dipole. Next find a pole or tree and turn the dipole sideways (that is, up and down) and connect both leads to your pole. Just make sure your pole isn't metal (mine was a long piece of bamboo found in a ditch). You may want to wrap electrical tape around the bare leads where the coax joins the antenna to prevent it from shorting out. Run your coax in the window, hook it to your rig and you're on. I've found that I have had the lowest SWR with my set up with this antenna.

If you every have any ideas for this column, please let me know. They can't be any worse than mine! I still do not know many of you as much as I would like so please come up and talk to me during one of the meetings -- I would love to meet you. Well, I guess I've used up all my space for this month.

Rick WN4LYN

REPEATER TIPS - Cape Fear Amateur Radio Society News January 1975

DO'S

DO KEEP ALL TRANSMISSIONS SHORT. Emergencies don't wait for monologues to be finished. If you talk to hear your own voice what you want is a tape recorder, not an FM rig.

DO THINK BEFORE YOUR TRANSMIT. If you can't think of anything worth saying, don't say anything.

DO PAUSE A COUPLE OF SECONDS BETWEEN EXCHANGES. Someone with a high-priority need for the repeater may want to break in; also, some repeaters are configured so that a brief pause in transmissions is necessary to reset the three-minute timer.

DO IDENTIFY PROPERLY. "W6XYZ mobile" is not enough, even if you're three hundred miles from another call area; "W6XYZ mobile 6" is required. You must give the call of the station with whom you were in contact at the end of the contact.

DO BE COURTEOUS. A repeater is like a telephone party line, and requires the same kind of cooperation in its use.

DO USE SIMPLEX WHENEVER POSSIBLE. Leave the repeaters available for those who need them.

DO USE THE MINIMUM POWER NECESSARY to maintain communication. Not only is this an FCC requirement, it's also common courtesy.

DO SUPPORT YOUR LOCAL REPEATER CLUB. even if it doesn't require all users to be members. Maintaining a good machine is an expensive undertaking, and you should do your share.

DON'TS

DON'T ABUSE AUTOPATCH PRIVILEGES. Business messages are not permitted in the amateur service. Don't force the control operator to terminate your call in order to avoid a violation.

DON'T SPEAK INTO A CONTACT unless you have something to add. Interrupting is no more polite on the air than it is in person.

DON'T FORGET THAT AMATEUR RADIO IS ALLOCATED FREQUNCIES BECAUSE IT IS A SERVICE, not just a hobby. Don't neglect the public service aspects of VHF-FM communication, such as accident reporting, emergency preparedness, etc.

DON'T TRY TO PROVE WHAT A GREAT OP-OPERATOR YOU ARE by criticizing the operating techniques of others on the air. Instead, set an example which others will be proud to follow.

DON'T MONOPOLIZE A REPEATER. The best repeater users are the ones who do a lot of listening, and little transmitting.

DON'T FORGET THAT WHAT YOU SAY OVER A REPEATER CAN BE HEARD OVER THOUSANDS OF SQUARE MILES by anyone with an inexpensive "public service band" monitor. These people are potential hams; if they like what they hear on the air, they will want to get licenses and join us. Don't leave them with a bad impression of our hobby by making thoughtless or off-color remarks.

Do your testing of equipment and antennas on simplex or other-than-repeater channels to avoid unnecessary keying of the repeater.

Do be careful about unauthorized use of your station by children or others. Disable radio when you leave your car unlocked for servicing, etc. But lock your unattended equipment to avoid rip-off and unauthorized use.

Do avoid sitting on mike button when you are mobile. After 3 minutes repeater times out and remains off.

Don't defeat timer by keying mike button at end of every sentence. You have 3 minutes to say what's important and turn repeater over to another station.

FROM THE EDITOR

From time to time I like to think back over small but embarrassing things that have occurred to me. The occurance that pops to mind is the night that I checked into a CW net with some traffic.

Now for those of you who have not had the pleasure of checking into a CW net, I highly recommend it.

Anyway, back to me...I know that I know Morse Code for the FCC said I did. But for some reason, when the NCS asked for my name, QTH, and traffic, it took three or four tries before I understood. We got that squared away and then the NCS asked me to "QSY" with another station to pass the traffic. "QSY"?? I've only used that a mission times so naturally, I had to stop and look it up in the HANDBOOK.

Just as cool as every, I commenced to send my traffic right there on the net freq. Finally, something dawned on me that I was making a terrible mistake. Oh yes, QSY. So, up I go and find my station. By now though, I had already completed one message, so naturally I just gave him the second message. When he asked for my first message, I realized that it had been just so much QRM on the net. Anyway, I put it on him. "QSL UP #1". "Hmmm, I wonder why he wants a QSL card for a message?"

CW net...TRY IT, YOU'LL LIKE IT.

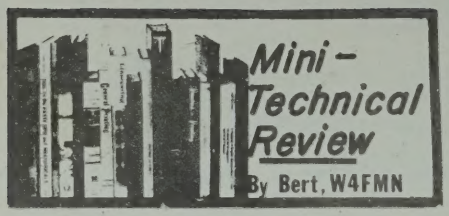
Charles CB4DCM

NOVICE CLASS

A new novice class was begun on February 24, 1975. It meets in Room B-38 of the Administration Building. Classes will be on Mondays at 7:00 PM. All persons interested in obtaining a novice license are invited to attend.

THIRD ANNUAL HAM FEST

The third annual RARS Hamfest will be held on Sunday, April 20, 1975 at the Crabtree Valley Mall.



This month's Ham Radio has a series of in-depth technical articles on four different subjects. An article on the design and testing of receiver preselection filters, one on the pluses and minuses of speech processing circuits, a discussion of Transistor Breakdown voltages and what they mean, and an article explaining the theory and construction of Mosfet devices, including a series of application circuits. There is also an article for the ultimate frequency counter fan describing some new pre-scaler chips which go to 1200 KHz. The prices, unfortunately, are also in the upper ranges.

Construction articles deal with a 2304 MHz power amplifier using the 2C39 tube to produce 30 watts. There is also a design article on a phase-locked RTTY terminal unit using only three IC's and capable of receiving wide-shift or narrow-shift Rtty signals. A third construction article deals with making a built-in scanner for the popular Hot Water 0202. The scanner uses point leds over the channel selector buttons to indicate activity.

This month's editorial deals, as might be expected, with the latest FCC docket on rule and class changes.

73 Magazine for February contains the complete text of the new FCC docket as well as editorial comments by Wayne Green. There are too many tech articles to review in detail but the highlights are: four articles on satellite tracking, calling, etc., another keyer, called Super Key-every function is variable and it has more parts than most transmitters. There are a series of articles dealing with such diverse subjects as FM vs. AM, Automated CW, and Joys of the One Night Stand. One article on the conversion of the SB102 to an SB 103 (poor man's SB104) looks like it should have been in the April issue. Our technical writer achieved broad-band operation by sawing off the knobs and shafts on the pre-selector, tune and load controls. He found an additional advantage in that he was able to operate QRP everywhere except 7304 which is where he was operating before the conversion, and on, and on.

CQ Magazine this month has an interesting article on a DXpedition to Spratly Island which lies some 300 miles off the Vietnam coast. There are some interesting technical articles on antennas and using transistor finals. In addition to all of the normal contest news there is an editorial on the FCC restructuring docket.

This month's QST in its lineup has an article on emergency power by none other than Herb Lacey, K4FBG, of the Cary Club. Herb should be congratulated on a fine job. There are a number of technical articles including a state of the art QRP transceiver for 50 MHz, another part of the Frequency counter series, and a stacked multiband vertical antenna for 80-10 meters. There are a couple of articles detailing information on the proposed restructuring. The cover of this month's issue is a flow chart of the FCC proposal. There is an article from the humor side called "contesting" which defines a number of terms to describe the frustrations of contesting. There is also an article called the contester which tells you how to build a device which must be the dream machine of contesting. This device will -send your cw-keep and check your dupe sheets-tell you

the time-count your QSOs-and fill in your log. The author calls it a semiautomatic contest station. I guess it is called semi-automatic because it doesn't mail the logs to the ARRL for you.

Jack Kenny WB4MCU

RARS

Chuck Littlewood, W4RUH
Secretary, RARS

Minutes of Meeting held

FEBRUARY 5, 1975

The regular meeting of the Raleigh Amateur Radio Society was called to order at 7:40 PM in the cafeteria of ITT Telecommunications Corp. on Wake Forest Road. Seventy-five members and guests introduced themselves.

President Al Clement, WA4DKZ, announced that C. T. West accepted the position of assistant editor of the RARS Newsletter and John Gordon as official photographer.

Bert Bailey, W4FMN, Wake County E.C. reported on the S.E.T. exercise. Bert pointed out that many local radio hams were not fully prepared to handle S.E.T. traffic. Many RARS members did participate, helping us have the best exercise yet. Bert also received volunteers to man the message center at Crabtree Valley Mall the 3rd Friday night of the month.

Mike Everett, WA4DLF, reported from the H.R. Report of the renewed FCC action to create the Class E Citizen Radio Service in our 220 MHz band. Mike urged all present to write key congressmen explaining the role of amateur radio and the plans for the "communicator" license.

The secretary reported from the ARRL Bulletin the revised amateur radio license fee changes, effective March 1, 1975. A new or renewed license will be $4.00 and $3.00 for a modification.

George Richards, WA4EKJ, reported that all should talk up the 3rd annual RARS Hamfest April 20, 1975.

Also, many of the RARS 2-meter club amplifiers were in operation and that there would be another tune-up session in the future.

Al mentioned the plans for a Raleigh/Cary novice license class to start February 24, 1975. Contact Herb Lacey, K4FBG, for additional information.

After the business meeting those present were divided into 4 groups and led on a plant tour.

Thanks go to ITT Telecommunications for the opportunity to see some "state-of-the-art" facilities in the field of electronic equipment, design and manufacturing. Meeting adjourned 11:00 PM.

Respectfully submitted,
Chuck Littlewood, W4RUH
Secretary, RARS

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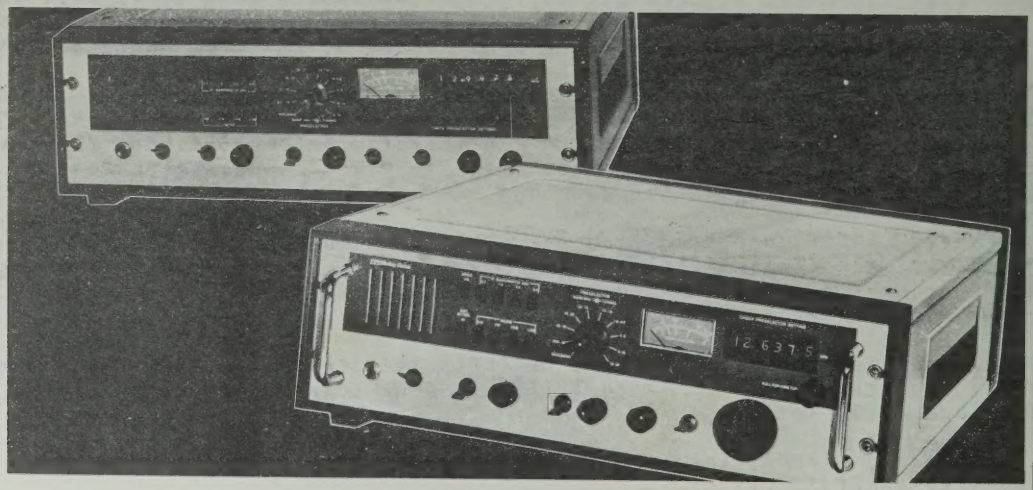

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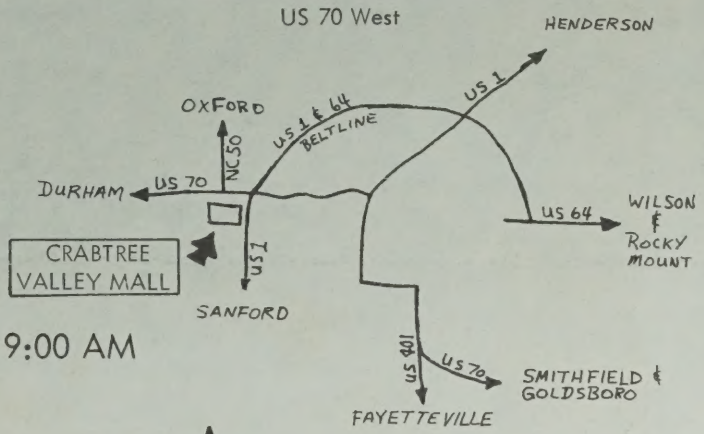
THE RALEIGH AMATEUR RADIO SOCIETY'S

THIRD ANNUAL

HAMFEST

SUNDAY APRIL 20 1975

Crabtree Valley Shopping Center
US 70 West



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★ FLEA MARKET (COVERED) ★

★ WOMEN'S ACTIVITIES & PRIZES ★ NET & ASSOCIATION MEETINGS

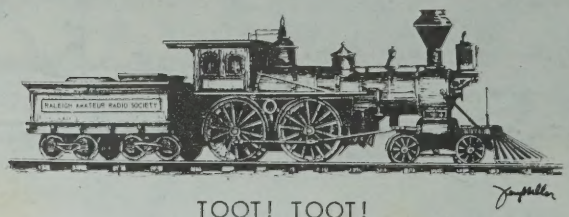
★ ARMY, NAVY, & AIR FORCE MARS MEETINGS ★

Watch for more details!

RARS
CALENDAR OF EVENTS

March 1-2.	ARRL DX Competition, Phone
March 5.	Regular RARS Meeting
March 15-16.	ARRL DX Competition, CW
March 19	EXEC & ADV Committee Meets
April 2.	Regular RARS Meeting
April 16	EXEC & ADV Committee Meets
April 20	3rd Annual RARS Hamfest
May 7.	Regular RARS Meeting
May 21	EXEC & ADV Committee Meets
June 4	Regular RARS Meeting
June 14-15	ARRL VHF QSO Party
June 18.	EXEC & ADV Committee Meets
June 28-29	ARRL FIELD DAY
July 2	Regular RARS Meeting

RARS NETS - MONDAY, TUESDAY, THURSDAY, FRIDAY NIGHTS
8:00 PM - 2 Meter FM Net - 146.04/64 Repeater
7:00 PM - 10 Meter SSB Net - 28.540 MHz



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